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CLAIMS

- 1. A wireless transceiver device, comprising:
 - 2 memory for storing synchronous and non-synchronous
 - data; and
 - 4 circuitry defining logic for determining whether
 - 5 transmission of non-synchronous data packets may be
 - 6 initiated without conflicting with a packet of synchronous
 - 7 data that is to be transmitted in the future.
 - 2. The wireless transceiver of claim 1 wherein the circuitry further defines logic that generates a bit string whose logic states define whether, for a given time slot, a synchronous event is to be transmitted.
 - 3. The wireless transceiver of claim 1 wherein the synchronous data comprises continuous bit rate data.
- 1 4. The wireless transceiver of claim 3 wherein the
 - 2 continuous bit rate data comprises one of video or voice
 - 3 data.
 - 1 5. The wireless transceiver of claim 1 wherein the
 - 2 circuitry further defines logic that evaluates a time value
 - 3 with respect to a bit stream modulo to determine what bit in
 - 4 the bit stream corresponds to the present time.

- 1 6. A method for determining whether to initiate non-
- 2 synchronous event transmission, comprising:
- determining whether a synchronous event is scheduled
- 4 for transmission during the present defined time period; and
- if not, determining whether to initiate the
- 6 transmission of a non-synchronous event.
 - 7. The method of claim 6 wherein a synchronous event comprises transmitting continuous bit rate data.
 - 8. The method of claim 6 wherein a synchronous event comprises transmitting voice data.
 - 9. The method of claim 6 wherein a synchronous event comprises transmitting video data.
- 1 10. The method of claim 6 wherein the step of
- 2 determining whether to transmit non-synchronous data
- 3 includes determining how many defined periods of time are
- 4 required for transmitting the non-synchronous data.
- 1 11. The method of claim 10 further including the step
- of determining whether a collision between a synchronous and
- 3 non-synchronous transmission could occur.

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- 1 12. The method of claim 11 wherein the step of
 2 determining whether a collision could occur includes
 3 determining whether there exists a sufficient number of
 4 defined periods for which no synchronized events are
 5 scheduled for transmission following the present period to
 6 enable the initiation of transmitting the present non7 synchronous event without a likelihood of a collision.
 - 13. The method of claim 6 wherein the step of determining whether a synchronous event is schedule comprises dividing the present time by a modulo number which module number reflects the length of a bit stream in which each bit of the bit stream represents a time period for transmitting synchronized and unsynchronized events.
 - 14. The method of claim 13 wherein a remainder is determined during the dividing step is evaluated to determine a group of bits of the bit stream that include a bit that represents the present time period.
- 1 15. The method of claim 13 wherein a remainder is 2 determined during the dividing step is evaluated to 3 determine which bit of the stream of bits represents the 4 present time period.

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- 1 16. The method of claim 15 further including the step 2 of determining the length (number of time periods) of a non-
- 3 synchronized event that is to be transmitted.
 - 17. The method of claim 16 further including the step of determining whether a synchronized event is scheduled for transmission during the time period that would be utilized for transmitting the non-synchronous event if the non synchronous event were to be initiated in the present time period.

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- 18. A method for transmitting non-synchronous events,
- 2 comprising:
- 3 building a fixed length user bit stream that reflects
- when synchronized events are to be transmitted;
- copying the user bit stream into a real time bit 5
- stream; 6

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- determining what bit of the real time bit stream 7
- 8 relates to the present time; and

determining whether to initiate transmission of a nonsynchronous communication event.

- 19. The method of claim 18 further including copying the user bit stream into the real time bit stream on a periodic basis.
- 20. The method of claim 18 further including 1 performing a mathematical operation as a part of determining 2
- what bit of the real time bit stream relates to the present 3
- time.
- 1 21. The method of claim 18 further including
- performing a mathematical operation to determine a group of
- bits of the real time bit stream that include what bit 3
- relates to the present time.

- 1 22. The method of claim 18 including the step of
- 2 dividing the present time by a modulo number as a part of
- 3 determining what bit in the real time bit stream relates to
- 4 the present time.
- 1 23. The method of claim 22 wherein the modulo number
- 2 is equal to the number of bits in the user and the real time
- 3 bit streams.
 - 24. The method of claim 22 wherein the modulo number is equal to number "8".
 - 25. The method of claim 22 wherein a remainder determined during the dividing step identifies the specific bit of the bit stream that represents the present time.

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